

[(2)] comparing the stored changed channel information and channel information stored already, for updating the channel information.

2. (Amended) [A] The method [as claimed in] of claim 1, wherein [the step (1) includes the step of] the determining step further comprises determining a version of the received broadcasting signal of being changed.

3. (Amended) [A] The method [as claimed in] of claim 2, wherein [the step of] determining a version change of the received broadcasting signal comprises [includes the steps of]:

parsing PAT information from a transport stream[,]; and  
checking a version number in the parsed PAT information to determine the version change.

4. (Amended) [A] The method [as claimed in] of claim 1, further comprises [comprising the step of] determining a repeater of being switched if it is found that the channel information is changed, to store the changed channel information.

5. (Amended) [A] The method [as claimed in] of claim 4, wherein the step of determining a repeater of being switched further comprises [includes the steps of]:

storing the changed channel information if it is found that the repeater is not changed[.];  
and  
maintaining existing channel information if it is found that the repeater is changed.

6. (Amended) [A] The method [as claimed in] of claim 1, wherein the step of storing the changed information further comprises [includes the steps of]:

starting a program association table (PAT) [PAT] parsing[.];  
determining the PAT parsing conducted presently of being an initial PAT parsing[.];  
storing each channel information in a first data base to form a first channel list, if it is found that the PAT parsing is the initial PAT parsing as a result of the determination[.]; and  
clearing the first channel list, and storing the changed channel information in a second data base, to form a second channel list, if it is found that the PAT parsing is not the initial PAT parsing as a result of the determination.

7. (Amended) [A] The method [as claimed in] of claim 1, wherein [the step (1) includes the steps of:] the determining step further comprises:

providing a PMT parsing start command upon completion of the PAT parsing[.];  
determining the PMT parsing conducted presently of being an initial program map table (PMT) [PMT] parsing[.];

storing PMT information in a first data base, and providing a PMT completion signal, if it is found that the PMT parsing conducted presently is the initial PMT parsing as a result of the determination[.];

if it is found that the PMT parsing conducted presently is not the initial PMT parsing as a result of the determination, storing the changed PMT information in a second data base[.]; and

comparing a first channel list and a second channel list, to check added or canceled channel, updating the channel information upon completion of the channel check, and providing a PMT completion signal.

8. (Amended) [A] The method [as claimed in] of claim 7, wherein the determining step further comprises [including the step of] providing a program guide message (PMM) [PMM] information processing command after [the step of] storing the PMT information in the first data base.

Clean Set of Amended Claims

AI 1. (Amended) A method for changing channel information in a digital TV receiver, the method comprising:

2. determining a channel information of being changed from a broadcasting signal received

3. at every preset time interval and storing the changed channel information; and

4. comparing the stored changed channel information and channel information stored already, for updating the channel information.

5. 2. (Amended) The method of claim 1, wherein the determining step further comprises determining a version of the received broadcasting signal of being changed.

6. 3. (Amended) The method of claim 2, wherein determining a version change of the received broadcasting signal comprises:

7. parsing PAT information from a transport stream; and

8. checking a version number in the parsed PAT information to determine the version change.

9. 4. (Amended) The method of claim 1, further comprises determining a repeater of being switched if it is found that the channel information is changed, to store the changed channel information.

5. (Amended) The method of claim 4, wherein the step of determining a repeater of being switched further comprises:

storing the changed channel information if it is found that the repeater is not changed[,];

and

maintaining existing channel information if it is found that the repeater is changed.

6. (Amended) The method of claim 1, wherein the step of storing the changed information further comprises:

starting a program association table (PAT) parsing;

determining the PAT parsing conducted presently of being an initial PAT parsing;

storing each channel information in a first data base to form a first channel list, if it is found that the PAT parsing is the initial PAT parsing as a result of the determination; and

clearing the first channel list, and storing the changed channel information in a second data base, to form a second channel list, if it is found that the PAT parsing is not the initial PAT parsing as a result of the determination.

7. (Amended) The method of claim 1, wherein the determining step further comprises:

providing a PMT parsing start command upon completion of the PAT parsing;

determining the PMT parsing conducted presently of being an initial program map table (PMT) parsing;

storing PMT information in a first data base, and providing a PMT completion signal, if it is found that the PMT parsing conducted presently is the initial PMT parsing as a result of the determination;

if it is found that the PMT parsing conducted presently is not the initial PMT parsing as a result of the determination, storing the changed PMT information in a second data base; and

comparing a first channel list and a second channel list, to check added or canceled channel, updating the channel information upon completion of the channel check, and providing a PMT completion signal.

8. (Amended) The method of claim 7, wherein the determining step further comprises providing a program guide message (PMM) information processing command after storing the PMT information in the first data base.